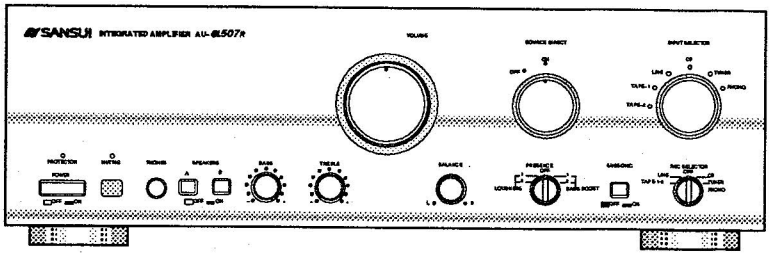
SANSUI

# AU-α507R
# AU-X517R

STEREO
INTEGRATED AMPLIFIER

# SERVICE MANUAL



## CAUTION

1. Parts identified the ⚠ symbol on the schematic diagram and the parts list are critical for safety.
   Use only replacement parts that have critical characteristics recommended by the manufacturer.
2. Make leakage-current for resistance measurements to determine that exposed parts are acceptably insulated from the supply circuit before returning the appliance to the customer.

⚠ 印がついている部品は，安全性を維持するために，重要な部品です．
これらの部品を交換する際には，必ず指定された部品を使用して下さい．

## NOTICE

The symbols, EU, SS, and ×× on the Parts list and the schematic diagram mean followings respectively.

EU　Manufactured for European market.
SS　Manufactured for Saudi Arabian market.
××　Standard Version.
NON MARK　Common Parts.
マークの無い部品は，全仕向け共通です。

・AU-α507Rは、日本向製品です。
・AU-α507R is a model for the Japanese market.

## Notice for Parts

1. Some printed circuit board are not supplied as sembled.
   To separate these in this Service Manual, the stock numbers are not indicated for these boards. However, stock numbers for individual parts are indicated.
2. Since some capacitors and resistors are omitted from parts lists in service manual, refer to the Common Parts List for capacitors and resistors, which was issued on June 1987.
3. Abbreviations in this Parts List are as follows.

1. プリント基板の中には，アッセンブリー供給できないものがあります．
   基板番号の後にストック番号の付いていないものは，アッセンブリー供給できませんのでご注意ください．
   ただし，基板上の個々の部品については供給いたします．
2. 部品表に記載されていない，抵抗・コンデンサーがあります．それらについては，1987年3月発行の新規標準抵抗・コンデンサーパーツリストを参照してください．
3. このマニュアルには，略語が使用されております．それらについては略語表を参照してください．

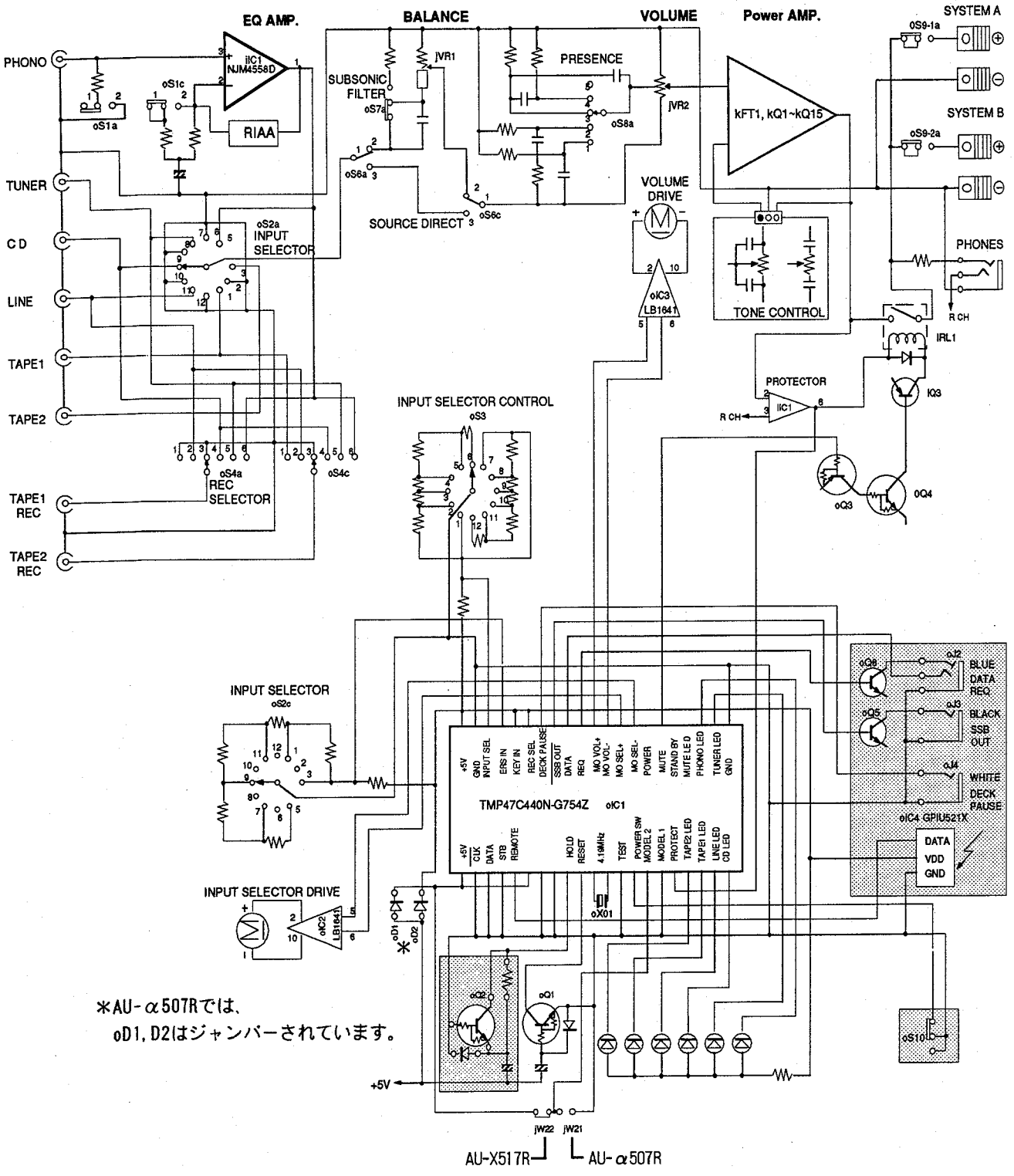
## Abbreviations List

| | |
|---|---|
| C.R. | :Carbon Resistor |
| S.R. | :Solid Resistor |
| Ce.R. | :Cement Resistor |
| M.R. | :Metal Film Resistor |
| F.R. | :Fusing Resistor |
| N.I.R. | :Non-Inflammable Resistor |
| A.R. | :Array Resistor |
| C.C. | :Ceramic Capacitor |
| C.T. | :Ceramic Capacitor, Temperrature Compensation |
| E.C. | :Electrolytic Capacitor |
| E.L. | :Low Leak Electrolytic Capacitor |
| E.B. | :Bi-Polar Electrolytic Capacitor |
| E.B.L. | :Low Leak Bi-Polar Electrolytic Capacitor |
| Ta.C. | :Tantalum Capacitor |
| F.C. | :Film Capacitor |
| M.P. | :Metalized Paper Capacitor |
| P.C. | :Polystyrene Capacitor |
| M.M.C. | :Metalized Mylar Capacitor |
| A.C. | :Array Capacitor |
| V.R. | :Variable Resistor |
| S.V.R. | :Semi Variable Resistor |
| SW. | :Switch |
| Chip.R. | :Chip Resistor |
| Chip.C. | :Chip Capacitor |

## 部品略語表

| | |
|---|---|
| C. R. | :カーボン抵抗 |
| S. R. | :ソリッド抵抗 |
| Ce. R. | :セメント抵抗 |
| M. R. | :金属被膜抵抗 |
| F. R. | :フューズ抵抗 |
| N. I. R. | :不燃性抵抗 |
| A. R. | :アレー抵抗 |
| C. C. | :セラミック抵抗 |
| C. T. | :温度補償用セラミックコンデンサー |
| E. C | :電解コンデンサー |
| E. L. | :低漏れ電流電解コンデンサー |
| E. B. | :無極性電解コンデンサー |
| E. BL. | :無極性低漏れ電流電解コンデンサー |
| Ta. C. | :タンタル・コンデンサー |
| F. C. | :フィルム・コンデンサー |
| M. P. | :メタライズドペーパーコンデンサー |
| P. C. | :スチロール・コンデンサー |
| M. M. C. | :メタライズドマイラーコンデンサー |
| A. C. | :アレー・コンデンサー |
| V. R. | :可変抵抗 |
| S. V. R. | :半固定抵抗 |
| S. W. | :スイッチ |
| Chip R. | :チップ抵抗 |
| Chip C. | :チップコンデンサー |

# 1.BLOCK DIAGURAM

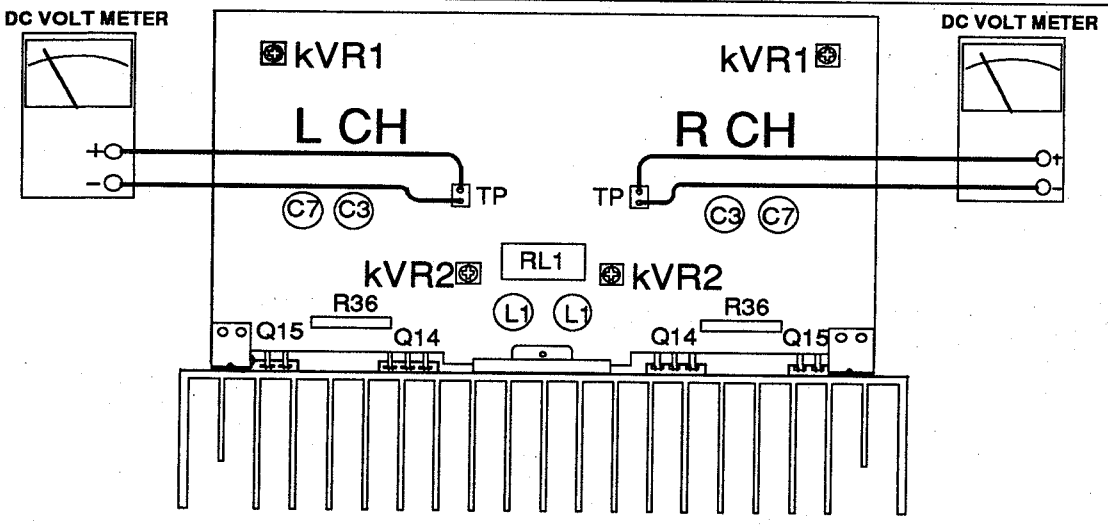


# 2.ADJUSTMENT 調整方法

Note: 1. Master Volume Minimum
2. Room Temperature 18°C～28°C (65°F～83°F)
3. For this adjustment, run the unit for more than 10 minutes after the power is switched ON.
4. Before turing ON power switch, set the kVR1 on F-5710 to center position.

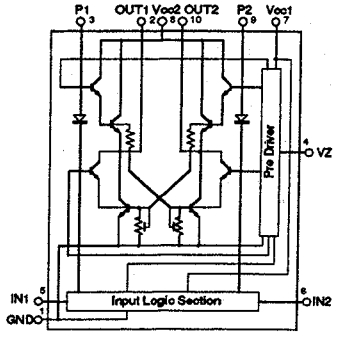
条件：1. マスターボリューム 最小
2. 周囲温度 18°C～28°C
3. 電源投入後、10分以上経過してから調整を行う。
4. 電源を入れる前に、kVR1を機械的センターにする。

| STEP ステップ | SUBJECT 項 目 | MEASURE OUTPUT 接続箇所 | ADJUST 調整箇所 | ADJUST FOR 調整 | REMARKS 備 考 |
|---|---|---|---|---|---|
| 1. | Center DC 0V Adj. <L-CH> | Speakers Terminal<L-CH> DC Volt Meter | kVR1<L-CH> F-5710 | DC 0±50mV | |
| 2. | Center DC 0V Adj. <R-CH> | Speakers Terminal<R-CH> DC Volt Meter | kVR1<R-CH> F-5710 | DC 0±50mV | |
| 3. | Bias Current Adj. <L-CH> | Test terminal(TP,L-CH) DC Volt Meter | kVR2<L-CH> F-5710 | DC 6.6mV | *This bias value is converted from current value to voltage by ohms law. *バイアス電流値は電圧値に換算して測定している。 |
| 4. | Bias Current Adj. <R-CH> | Test terminal(TP,R-CH) DC Volt Meter | kVR2<R-CH> F-5710 | DC 6.6mV | |

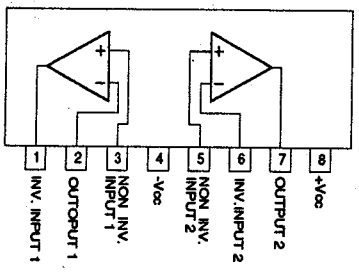



# 3.INTERIOR BLOCK DIAGRAM & TERMINAL FUNCTION OF IC

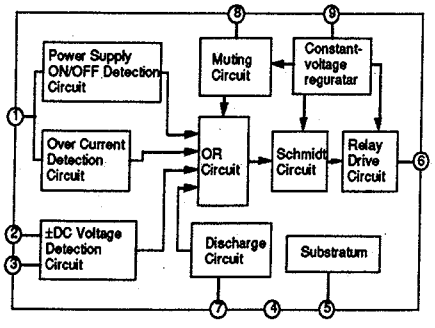
## ・LB1641<Driving Motor>




## ・M5220L<OP Amp.>




## ・TA7317P<Protector>



・TMP47C440N-754Z<System Control>

| Pin No. | I/O | Function | Active |
|---|---|---|---|
| 1 | I | +5V | |
| 2 | I | GND | |
| 3 | A/D I | INPUT SELECTOR | |
| 4 | A/D I | ERS IN | |
| 5 | A/D I | KEY IN | |
| 6 | A/D I | REC SELECTOR | |
| 7 | O | DECK PAUSE | |
| 8 | O | SSB OUT | H |
| 9 | O | TU. REMOTE 1 | |
| 10 | O | TU. REMOTE 2 | |
| 11 | O | MOTOR VOL + | H |
| 12 | O | MOTOR VOL - | H |
| 13 | O | MOTOR SEL + | H |
| 14 | O | MOTOR SEL - | H |
| 15 | O | POWER | H |
| 16 | O | MUTE | H |
| 17 | O | STANDBY | L |
| 18 | O | MUTE LED | L |
| 19 | O | PHONO | L |
| 20 | O | TUNER | L |
| 21 | I | GND | |

| Pin No. | I/O | Function | Active |
|---|---|---|---|
| 22 | O | CD | L |
| 23 | O | LINE | L |
| 24 | O | TAPE1 | L |
| 25 | O | TAPE2 | L |
| 26 | I | PROTECT | H |
| 27 | I | 317/(517) | H |
| 28 | I | POWER SW | H |
| 29 | I | | |
| 30 | I | | |
| 31 | I | X'tal IN | |
| 32 | O | X'tal OUT | |
| 33 | I | RESET | L |
| 34 | I | | |
| 35 | I/O | | |
| 36 | I/O | | |
| 37 | I | REMOTE | L |
| 38 | O | STB | H |
| 39 | I | | |
| 40 | O | DATA | |
| 41 | O | CLK | L |
| 42 | I | +5V | |

# 4.PARTS LIST OF BOARD　プリント基板部品表

## F-5710 Power Amp. Board

<Stock No. 01346500=AU-α507R>
<Stock No. 01346501=AU-X517R>

| Parts No. | Stock No. | Description |
|---|---|---|
| ・TRANSISTOR | | |
| KQ1 | 46581701 | 2SC1845 |
| KQ2 | 46581701 | 2SC1845 |
| KQ3 | 46581701 | 2SC1845 |
| KQ4 | 46581601 | 2SA 992 |
| KQ5 | 46581601 | 2SA 992 |
| KQ6 | 46728201 | 2SA1145 |
| KQ7 | 46581701 | 2SC1845 |
| KQ8 | 46728301 | 2SC2705 |
| KQ9 | 46581701 | 2SC1845 |
| KQ10 | 46728301 | 2SC2705 |
| KQ11 | 46728201 | 2SA1145 |
| KQ12 | 46728901 | 2SC3298 |
| KQ13 | 46728801 | 2SA1306 |
| ⚠ KQ14 | 48844201 | 2SC3856 |
| ⚠ KQ15 | 48844101 | 2SA1492 |

| Parts No. | Stock No. | Description |
|---|---|---|
| ・FET | | |
| KFT1 | 46723601 | 2SK389-BL |
| or | 46723602 | 2SK389-V |
| or | 48785701 | 2SK389-BK |
| or | 48785702 | 2SK389-VK |
| ・DIODE | | |
| KD1 | 03117600 | 1S2473 |
| or | 46086000 | 1S1588 |
| KD2 | 03104800 | VARISTOR, SV-03 |
| KD3 | 03104800 | VARISTOR, SV-03 |
| ・ZENER DIODE | | |
| KDZ1 | 46829400 | RD22E |
| or | 46829500 | RD22E |
| or | 46829600 | RD22E |
| KDZ2 | 46825200 | RD6.2E |
| or | 46825300 | RD6.2E |
| or | 46825400 | RD6.2E |

## <F-5710>

| Parts No. | Stock No. | Description |
|---|---|---|
| ⚠ KR4 | 46244000 | 2.2kΩ 1W N.I.R. |
| ⚠ KR10 | 46405400 | 6.8kΩ 1/2W N.I.R. |
| ⚠ KR17 | 46228800 | 68Ω 1/2W N.I.R. |
| ⚠ KR18 | 46251500 | 820Ω 1/2W N.I.R. |
| ⚠ KR19 | 46251500 | 820Ω 1/2W N.I.R. |
| ⚠ KR25 | 46228800 | 68Ω 1/2W N.I.R. |
| ⚠ KR30 | 46229000 | 100Ω 1/2W N.I.R. |
| ⚠ KR31 | 46229000 | 100Ω 1/2W N.I.R. |
| ⚠ KR32 | 46230200 | 1kΩ 1/2W N.I.R. |
| ⚠ KR33 | 46229100 | 120Ω 1/2W N.I.R. |
| ⚠ KR34 | 46227400 | 4.7Ω 1/2W N.I.R. |
| ⚠ KR35 | 46227400 | 4.7Ω 1/2W N.I.R. |
| ⚠ KR36 | 46184100 | 0.22Ω 5W Ce.R. |
| ⚠ KR37 | 46623100 | 10Ω 2W N.I.R. |
| KL1 | 46851900 | COIL 0.82 μH |
| KVR1 | 48716300 | 100Ω S.V.R. |
| or | 48978000 | 100Ω S.V.R. |
| KVR2 | 48118700 | 1kΩ S.V.R. |
| or | 48978600 | 1kΩ S.V.R. |
| · TRANSISTOR | | |
| LQ1 | 46581701 | 2SC1845 |
| LQ2 | 46581601 | 2SA 992 |
| LQ3 | 46614001 | 2SA1283 |
| · IC | | |
| LIC1 | 46207600 | TA7317P |
| · DIODE | | |
| LD1 | 03117600 | 1S2473 |
| or | 46086000 | 1S1588 |
| LD2 | 03117600 | 1S2473 |
| or | 46086000 | 1S1588 |
| LD4 | 03117600 | 1S2473 |
| or | 46086000 | 1S1588 |
| LD5 | 48123600 | 11E2 |
| LC6 | 48104200 | 6.3V 220μF E.B. |
| LRL1 | 49358900 | RELAY |
| ⚠ LR16 | 46404100 | 560Ω 1/2W N.I.R. |
| ⚠ LR20 | 46402000 | 10Ω 1/2W N.I.R. |

## F-6908 EQ Amp. and Selector SW Control Board

<Stock No. 01345400=AU-α507R>
<Stock No. 01345401=AU-X517R>

| Parts No. | Stock No. | Description |
|---|---|---|
| · IC | | |
| IIC1 | 46288800 | M5220L |
| ⚠ IR13 | 46402600 | 33Ω 1/2W N.I.R. |
| ⚠ IR14 | 46402600 | 33Ω 1/2W N.I.R. |
| · TRANSISTOR | | |
| 0Q1 | 46834300 | DTC144ES (AU-X517R) |
| or | 49388300 | RN1204 |
| 0Q2 | 48230600 | DTC144WS |
| or | 49388800 | RN1209 |
| 0Q3 | 46834200 | DTA144ES |
| or | 49390500 | RN2204 |
| 0Q4 | 46834300 | DTC144ES |
| or | 49388300 | RN1204 |
| 0Q5 | 46367101 | 2SC2603 (AU-X517R) |
| 0Q6 | 46367101 | 2SC2603 (AU-X517R) |
| 0Q7 | 48230800 | DTC143XS |
| 0Q8 | 46367001 | 2SA1115 |
| 0Q9 | 46367001 | 2SA1115 |
| 0Q10 | 46367101 | 2SC2603 |
| · IC | | |
| 0IC1 | 49824100 | TMP47C440AN-G754Z |
| 0IC2 | 48982600 | LB1641 |
| 0IC3 | 48982600 | LB1641 |
| 0X01 | 49488500 | QUARTZ ELEMENT CSA4.19MHz |
| · DIODE | | |
| 0D1 | 48123600 | 11E2 (AU-X517R) |
| 0D2 | 48123600 | 11E2 (AU-X517R) |
| 0D3 | 46464100 | 1SS133 |
| 0D4 | 46464100 | 1SS133 (AU-X517R) |
| 0D5 | 46464100 | 1SS133 |
| 0D6 | 46464100 | 1SS133 |
| 0D7 | 46464100 | 1SS133 |
| · ZENER DIODE | | |
| 0DZ1 | 48630800 | RD5.1B2 |
| or | 49676200 | MTZJ5.1B |
| 0DZ2 | 48630800 | RD5.1B2 |
| or | 49676200 | MTZJ5.1B |
| 0C1 | 48798200 | 5.5V 2200μF E.C. (AU-X517) |
| 0C2 | 48748400 | 50V 0.1μF C.C. |
| 0C4 | 48748400 | 50V 0.1μF C.C. |
| 0S1 | 49824300 | PUSH SWITCH MM/MC |
| 0S2 | 49825500 | MOTOR SW., INPUT SELECTOR |
| 0S4 | 07200200 | SLIDE SW., REC SELECTOR |

## <F-6908>

| Parts No. | Stock No. | Description |
|---|---|---|
| OZ2 | 49487600 | PIN JACK TERMINAL 2P, PHONO |
| OZ3 | 48791800 | PIN JACK TERMINAL 2P, TUNER |
| OZ4 | 49339500 | PIN JACK TERMINAL 2P, CD |
| OZ5 | 49360700 | PIN JACK TERMINAL 6P, LINE, TAPE1. TAPE2 |
| ⚠ OR25 | 46401600 | 4.7Ω 1/2W N. I. R. |
| ⚠ OR26 | 46401600 | 4.7Ω 1/2W N. I. R. |

## F-6909 Tone Control Board

<Stock No. 01345500=AU-α507R>
<Stock No. 01345501=AU-X517R>

| Parts No. | Stock No. | Description |
|---|---|---|
| JC1 | 48479600 | 63V 0.22 μF M.M.C. |
| JC16 | 48103000 | 50V 0.22 μF E.B. |
| JVR1 | 49825900 | 250kΩ V.R., BALANCE |
| JVR3 | 49826000 | 50kΩ V.R., TONE CONTROL |
| JVR4 | 49826000 | 50kΩ V.R., TONE CONTROL |
| NLD3 | 49343200 | L.E.D. SEL3810A |
| NLD4 | 49343200 | L.E.D. SEL3810A |
| NLD5 | 49343200 | L.E.D. SEL3810A |
| NLD6 | 49343200 | L.E.D. SEL3810A |
| NLD7 | 49343200 | L.E.D. SEL3810A |
| NLD8 | 49343200 | L.E.D. SEL3810A |
| OS3 | 49825600 | ROTARY SW., INPUT SELECTOR |
| OS6 | 49825400 | PUSH SW., SOURCE DIRECT |
| OS7 | 49825200 | PUSH SW., SUBSONIC |
| OS8 | 49825700 | ROTARY SW., PRESENCE |

## F-6910 Master Volume Board

| Parts No. | Stock No. | Description |
|---|---|---|
| JVR2 | 49826100 | 150k(B) V.R., VOLUME |

## F-6911 Tape REC Terminal Board

| Parts No. | Stock No. | Description |
|---|---|---|
| OZ6 | 49359800 | PIN JACK TERMINAL 4P, TAPE1. 2 REC |

## F-6912 Remote Sensor Board

| Parts No. | Stock No. | Description |
|---|---|---|
| NLD1 | 49639100 | L.E.D. SEL3110S<br>PROTECTOR (AU-α507R)<br>REMOTE STANDBY (AU-X517R) |
| NLD2 | 48904700 | L.E.D. SEL3810A, MUTING |
| OIC4 | 49356200 | REMOTE RECEIVE UNIT GP1U521X |

## F-6913 Control Jack Board (AU-X517R)

| Parts No. | Stock No. | Description |
|---|---|---|
| OJ2 | 49436400 | JACK, BLUE |
| OJ3 | 48985400 | MINI JACK, BLACK |
| OJ4 | 48985400 | MINI JACK, WHITE |

## F-6914 Power SW Board (AU-X517R)

| Parts No. | Stock No. | Description |
|---|---|---|
| OS10 | 46199800 | PUSH SWITCH , POWER SW |

## F-6915 Power Supply Board

<Stock No. 01346200=AU-α507R>
<Stock No. 01346201=AU-X517R>

| Parts No. | Stock No. | Description |
|---|---|---|
| ・TRANSISTOR | | |
| ⚠ MQ1 | 48061801 | 2SC3244 |
| ⚠ MQ2 | 48064001 | 2SA1284 |
| ⚠ MQ3 | 03083901 | 2SD 313HP |
| MQ4 | 46581701 | 2SC1845 |
| ⚠ MQ5 | 03083901 | 2SD 313HP (AU-X517R) |
| MQ6 | 46614101 | 2SC3243 (AU-X517R) |
| ・IC | | |
| ⚠ MIC1 | 49440400 | NJM78M05FA |
| ・DIODE | | |
| ⚠ MD1 | 48667600 | FMU-22S |
| ⚠ MD2 | 48667700 | FMU-22R |
| ⚠ MD3 | 46273600 | DBB10B |
| or | 46273700 | DBB10C |
| ⚠ MD4 | 03117000 | RB152-LFF |
| ⚠ MD5 | 46273700 | DBB10C (AU-X517R) |
| MD6 | 48123600 | 11E2 (AU-X517R) |
| MD7 | 03117600 | 1S2473T77 |
| or | 46086000 | 1S1588TP-3 |

## <F-6915>

| Parts No. | Stock No. | Description |
|---|---|---|
| · ZENER DIODE | | |
| MDZ1 | 46829300 | RD22E-B1 |
| or | 46829400 | RD22E-B2 |
| or | 46829500 | RD22E-B3 |
| MDZ2 | 46829300 | RD22E-B1 |
| or | 46829400 | RD22E-B2 |
| or | 46829500 | RD22E-B3 |
| MDZ3 | 46826400 | RD9.1E-B1 |
| or | 46826500 | RD9.1E-B2 |
| or | 46826600 | RD9.1E-B3 |
| or | 49304400 | 05AZ9.1-X |
| or | 49304500 | 05AZ9.1-Y |
| or | 49304600 | 05AZ9.1-Z |
| MDZ4 | 46827700 | RD13E-B1 (AU-X517R) |
| or | 46827800 | RD13E-B2 |
| or | 46827900 | RD13E-B3 |
| or | 49305900 | 05AZ13-Z |
| MC1 | 48912500 | 63V 10000μF E.C |
| or | 49838700 | 63V 10000μF E.C. |
| MC2 | 48912500 | 63V 10000μF E.C. |
| or | 49838700 | 63V 10000μF E.C. |
| MC1 | 49838700 | 63V 10000μF E.C. |
| MC2 | 49838700 | 63V 10000μF E.C. |
| MC3 | 08680400 | 0.01μF 500V C.C. |
| MC4 | 08680400 | 0.01μF 500V C.C. |
| MC11 | 08680400 | 0.01μF 500V C.C. |
| MC18 | 08680400 | 0.01μF 500V C.C. (AU-X517R ) |
| ⚠ MPT2 | 15040001 | P.T. (AU-X517R) XX, SS |
| | 15040005 | P.T. (AU-X517R) EU |

## F-6916 Power Fuse Board

| Parts No. | Stock No. | Description |
|---|---|---|
| · DIODE | | |
| PD1 | 48123600 | 11E2 (AU-X517R) |
| ⚠ PC2 | 46425800 | 0.01μF 400V C.C. (AU-X517R) |
| ⚠ PF1 | 49628300 | 7A 250V FUSE (AU-α507R) |
| | 49627900 | 3.5A250V FUSE (AU-X517R) XX, SS |
| | 49297400 | 3.15A FUSE (AU-X517R) EU |
| ⚠ PF2 | 49627900 | 3.5A250V FUSE (AU-X517R) XX, SS |
| ⚠ PRL1 | 48982000 | RELAY (DC12V) (AU-X517R) |

## F-6917 Speaker SW Board

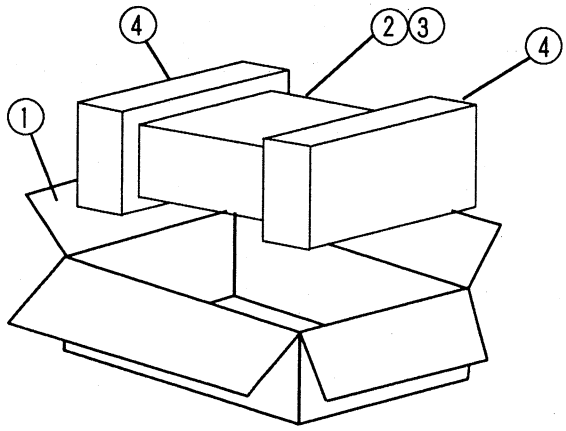
| Parts No. | Stock No. | Description |
|---|---|---|
| KR39 | 46624700 | 220Ω 2W N.I.R. |
| OS9 | 49825300 | PUSH SWITCH SPEAKER |
| OJ1 | 49474000 | JACK, HEAD PHONE |

## F-6918 Speaker Terminal Board

| Parts No. | Stock No. | Description |
|---|---|---|
| KR100 | 46623100 | 10Ω 2W N.I.R. |
| KR101 | 46623100 | 10Ω 2W N.I.R. |
| OZ1 | 48569100 | SP. TERMINAL 8P (AU-α507R) |
| | 48123100 | SP. TERMINAL 8P (AU-X517R) |

# 5.PACKING LIST

| Parts No. | Stock No. | Description |
|---|---|---|
| ① | 05172200 | CARTON CASE (AU-α507R) |
| | 05172300 | CARTON CASE (AU-X517R) |
| ② | 07868300 | POLYETHYLENE SHEET |
| ③ | 27306700 | VINYL BAG |
| ④ | 27395310 | STYROFOAM PACKING |




# 6.ACCESSORY LIST

| Stock No. | Description |
|---|---|
| 19082800 | OPERATING INSTRUCTIONS (AU-α507R) |
| 19082900 | OPERATING INSTRUCTIONS ※(E) |
| 19083000 | OPERATING INSTRUCTIONS ※(E.F.S.G.I.Sw.N) |
| 49826300 | REMOTE CONTROLLER UNIT RS-1480 (AU-α507R) |
| 83334500 | REMOTE CONTROLLER UNIT RS-1490 (AU-X517R) |
| ..... | DRY BATTERY, UM-4×2 |

**※NOTE**

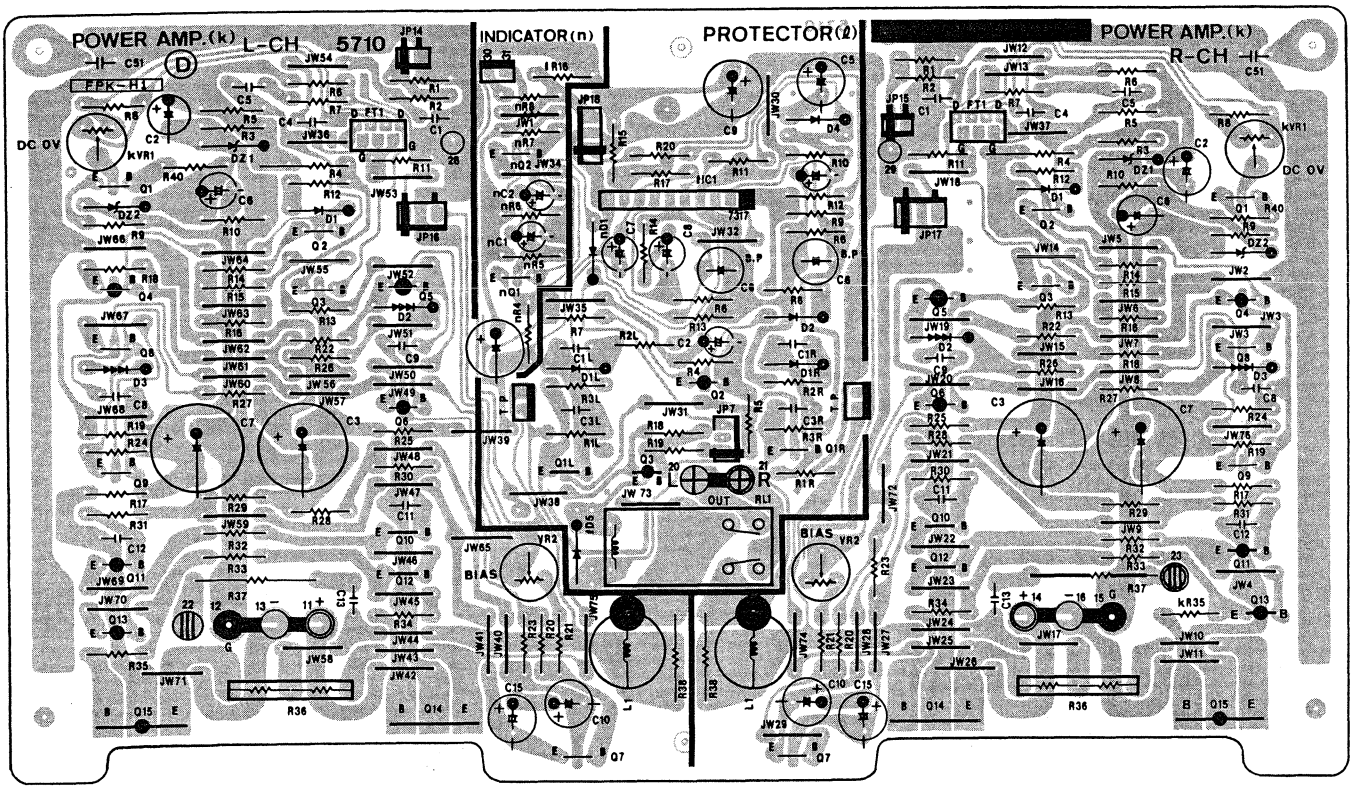
**E:** English Version

**E.F.S.G.I.Sw.N:** English, French, Spanish, German, Italian, Swedish and Netherlands Version

# 7.PARTS LOCATION ON BOARD

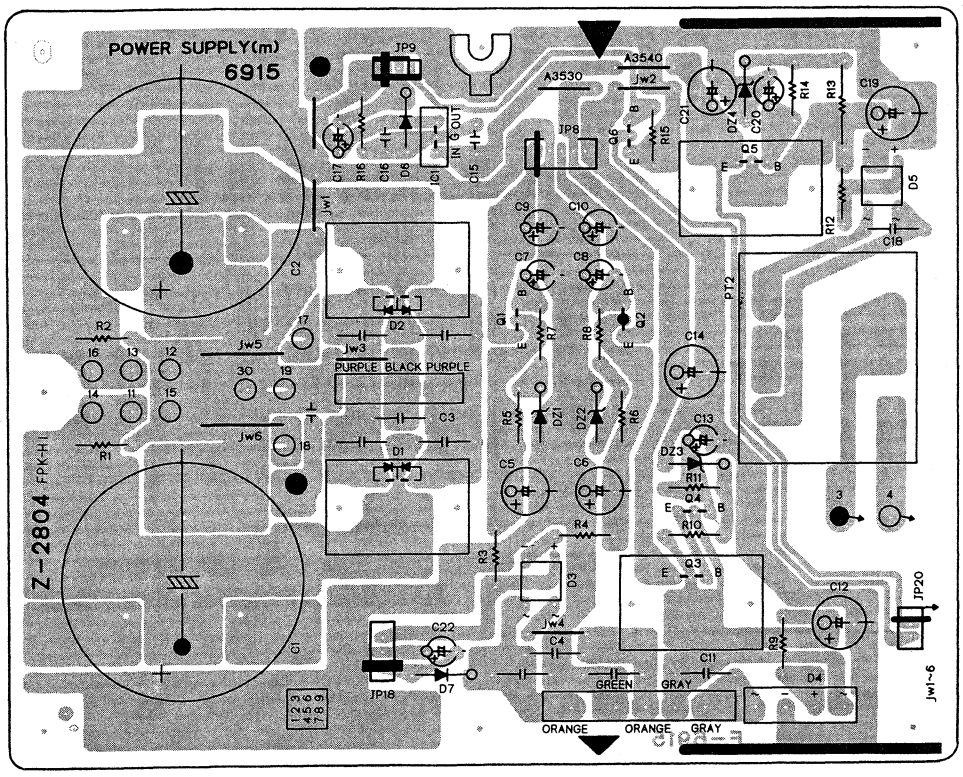
## 7-1 F-5710 Power Amp Board

**Component Side**



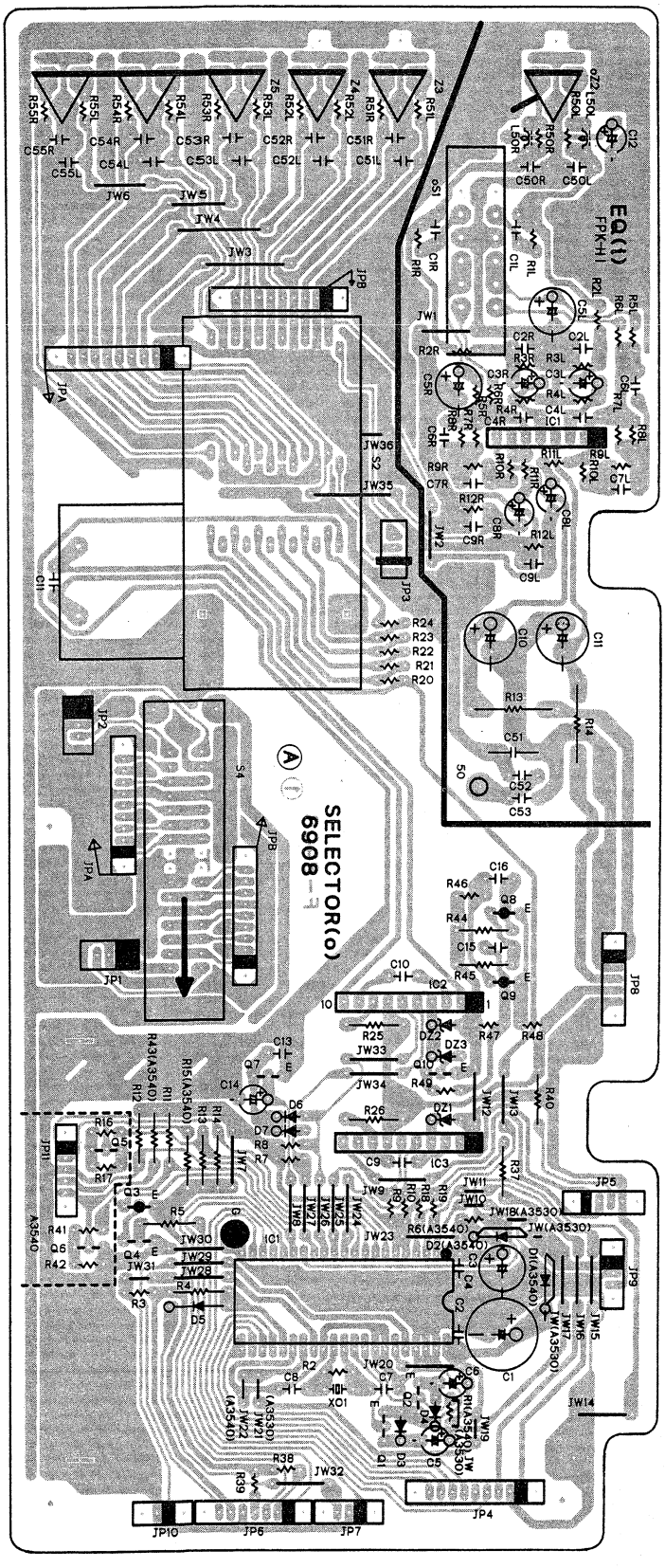

## 7-2 F-6915 Power Supply Board

**Component Side**



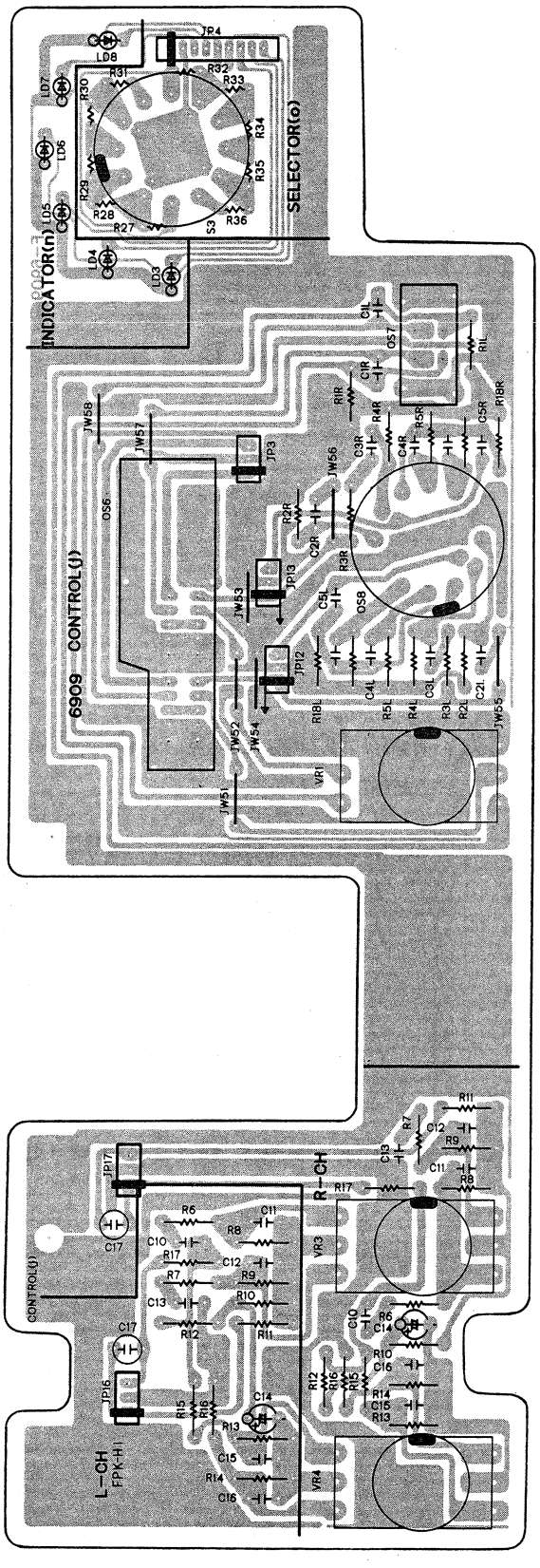
## 7-3 F-6908 EQ Amp & Control Board

**Component Side**



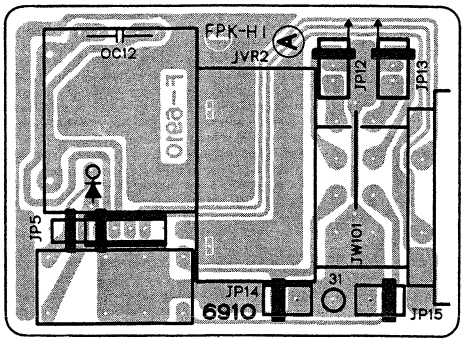

## 7-4 F-6909 Tone Control Board

**Component Side**



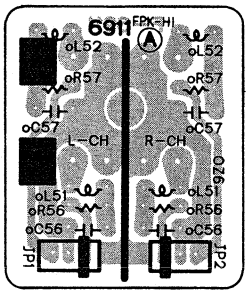
## 7-5 F-6910 Volume Board

**Component Side**



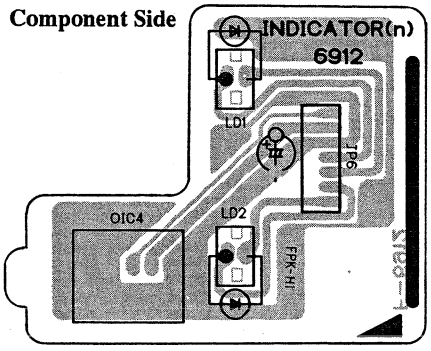

## 7-6 F-6911 Tape Rec Tarminal Board

**Component Side**




## 7-7 F-6912 Remote Sensor Board

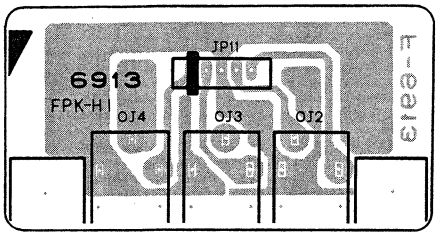
**Component Side**




## 7-8 F-6913 Controll Jack Board

(AU-X517R Only)

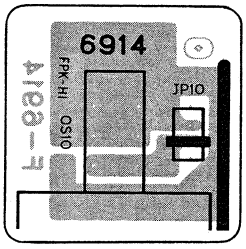
**Component Side**




## 7-9 F-6914 Power SW Board

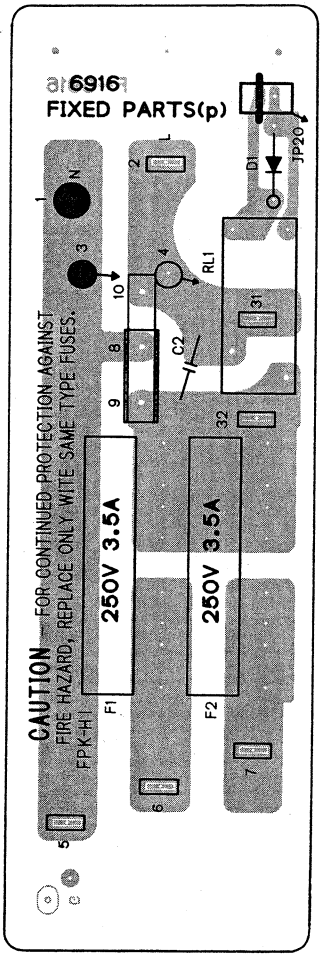
(AU-X517R Only)

**Component Side**



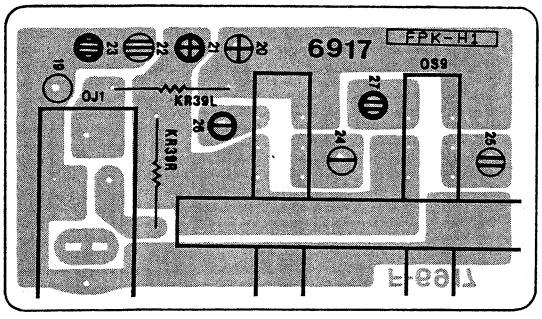

## 7-10 F6916 Power Fuse Board

**Component Side**



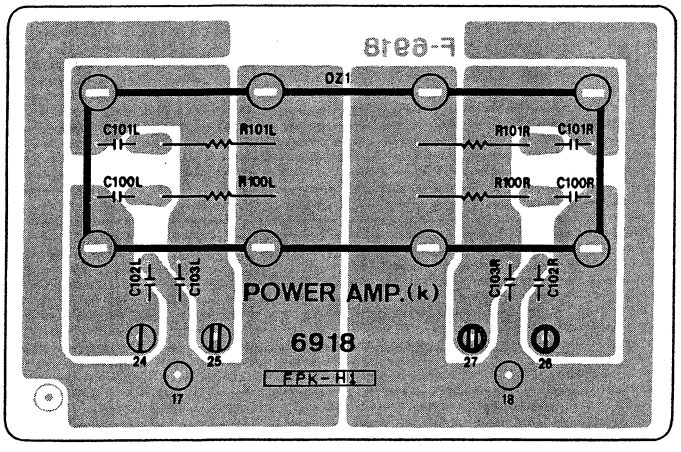

## 7-11 F-6917 Phone Jack & SP SW Board

**Component Side**



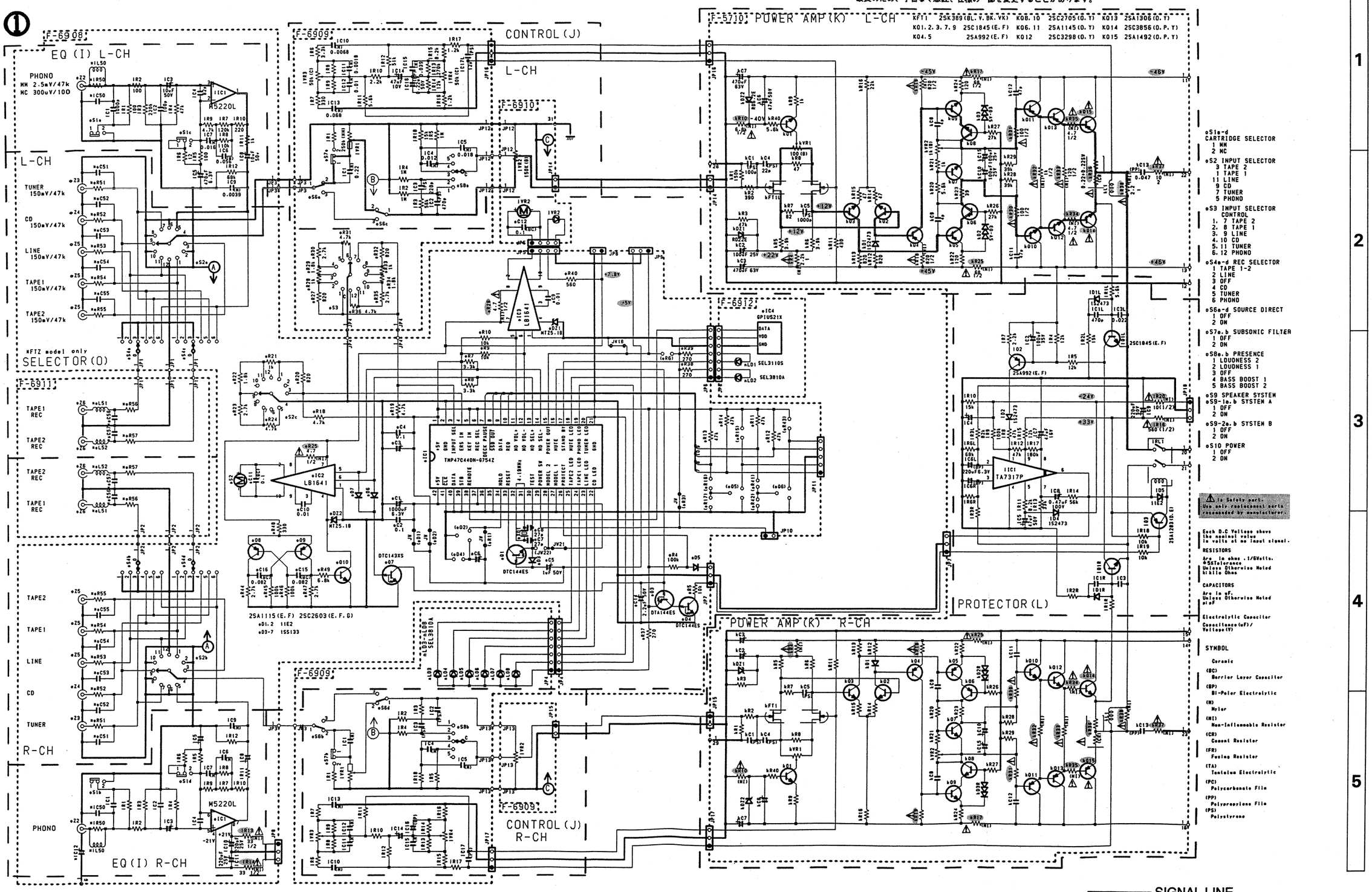

## 7-12 F-6918 Speaker Tarminal Board

**Component Side**



# 8.SCHEMATIC DIAGRAM 8-1.AU-α507R Main Section

- Design and specifications subject to change without notice for improvement.
- La présention et les spécifications sont susceptibles d'être modifiées sans préavis par suites d'améliorations éventuelles.
- Änderungen, die dem technischen Fortschritt dienen, bleiben vorbehalten.
- 改良のため、予告なく意匠、仕様の一部を変更することがあります。




oS1a-d
CARTRIDGE SELECTOR
1 MM
2 MC

oS2 INPUT SELECTOR
3 TAPE 2
1 TAPE 1
11 LINE
9 CD
7 TUNER
5 PHONO

oS3 INPUT SELECTOR CONTROL
1, 7 TAPE 2
2, 8 TAPE 1
3, 9 LINE
4, 10 CD
5, 11 TUNER
6, 12 PHONO

oS4a-d REC SELECTOR
1 TAPE 1-2
2 LINE
3 OFF
4 CD
5 TUNER
6 PHONO

oS6a-d SOURCE DIRECT
1 OFF
2 ON

oS7a, b SUBSONIC FILTER
1 OFF
2 ON

oS8a, b PRESENCE
1 LOUDNESS 2
2 LOUDNESS 1
3 OFF
4 BASS BOOST 1
5 BASS BOOST 2

oS9 SPEAKER SYSTEM
oS9-1a, b SYSTEM A
1 OFF
2 ON

oS9-2a, b SYSTEM B
1 OFF
2 ON

oS10 POWER
1 OFF
2 ON

⚠ is Safety part.
Use only reoplacement parts recommended by manufacturer.

Each D.C Voltage shows the against value in volts at no input signal.

RESISTORS
Are in ohms .1/6Watts.
±5%Tolerance
Unless Otherwise Noted
kilo Ohms

CAPACITORS
Are in μF.
Unless Otherwise Noted
μ-μF

Electrolytic Capacitor
Capacitance(μF)/Voltage(V)

SYMBOL
Ceramic
(BC) Barrier Layer Capacitor
(BP) Bi-Polar Electrolytic
(M) Mylar
(NI) Non-Inflammable Resistor
(CR) Cement Resistor
(FR) Fusing Resistor
(TA) Tantalum Electrolytic
(PC) Polycarbonate Film
(PP) Polypropilene Film
(PS) Polystyrene

AU-α507R/X517R

| A | B | C | D | E | F | G | H |
|---|---|---|---|---|---|---|---|

# 8-2.AU-α507R Power Supply Section

②

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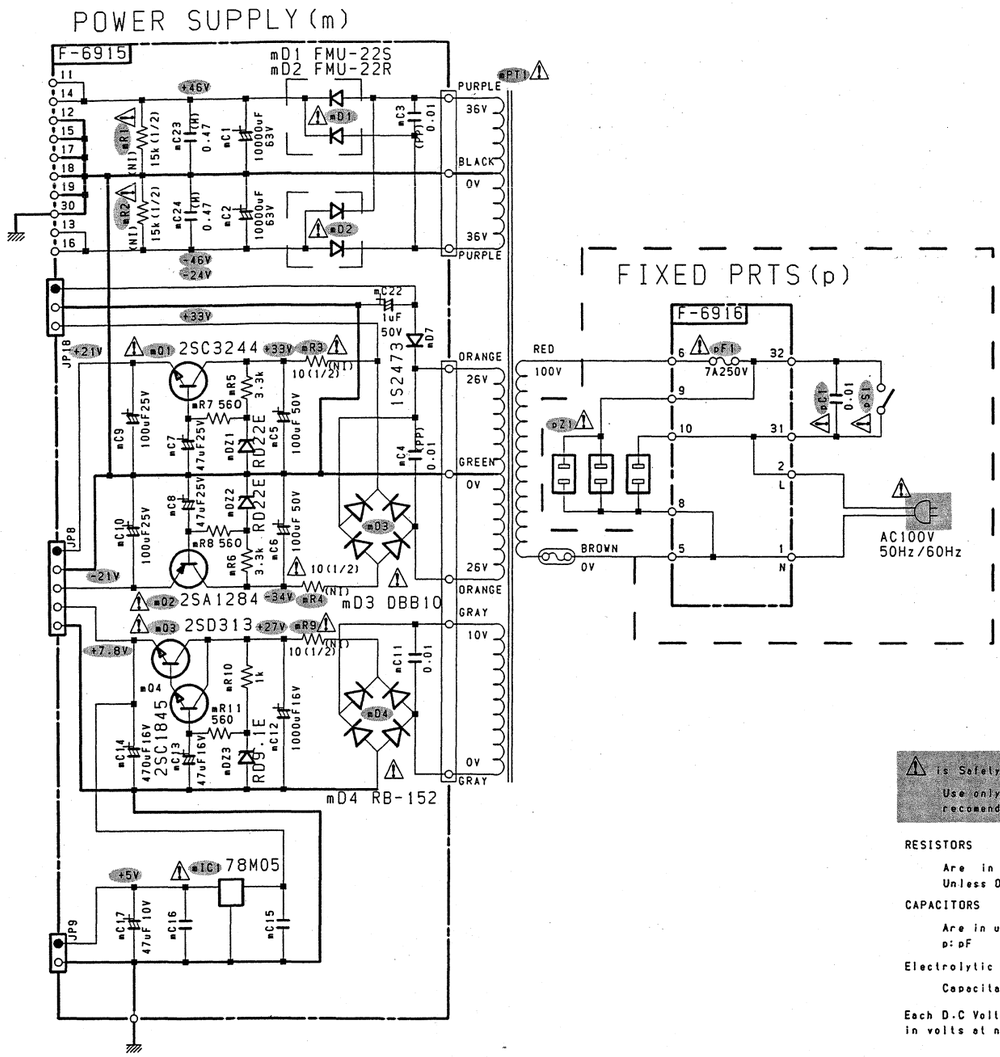
・改良のため、予告なく意匠、仕様の一部を変更することがあります。




⚠ is Safety part.
Use only replacement parts recomended by manufacturer.

RESISTORS

Are in ohms. 1/6Watts.±5%Tolerance
Unless Otherwise Noted. k:kilo Ohms

CAPACITORS

Are in uF. Unless Otherwise Noted
p:pF

Electrolytic Capacitor

Capacitance(uF)/Voltage(V)

Each D.C Voltage shows the nominal value in volts at no input signal.

SYMBOL

Ceramic
(BC) Barrier Layer Capacitor
(BP) Bi-Poler Electrolytic
(M) Mylar
(NI) Non-Inflammable Resistor
(CR) Cement Resistor
(FR) Fusing Resistor
(TA) Tantalum Electrolytic
(PC) Polycarbonate Film
(PP) Polypropylene Film
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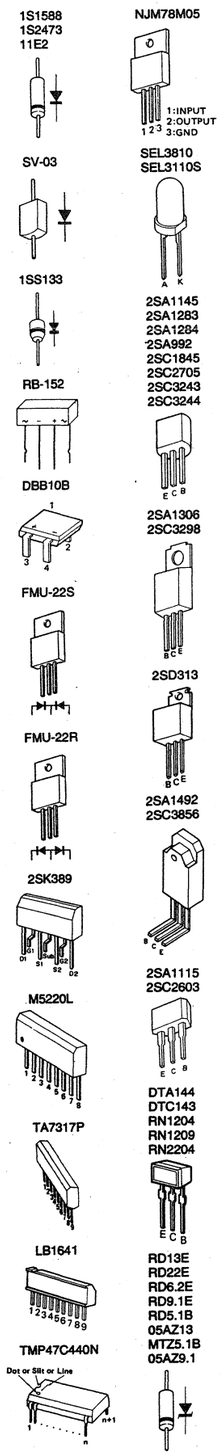


1 2 3 4 5

| A | B | C | D | E | F | G | H |
|---|---|---|---|---|---|---|---|

## 8-3.AU-X517R Main Section

- Design and specifications subject to change without notice for improvement.
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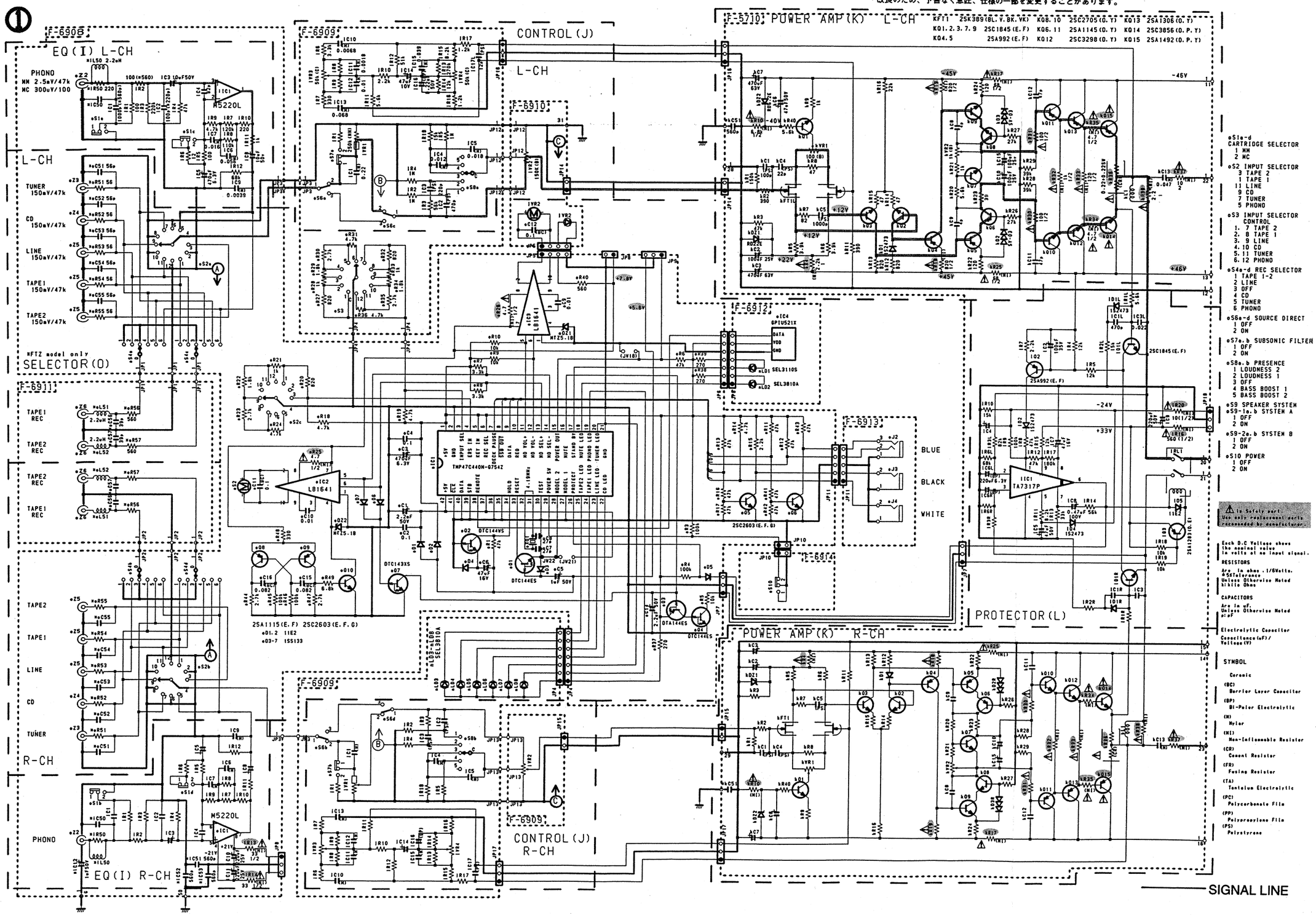


⚠ is Safety part. Use only replacement parts recommended by manufacturer.

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RESISTORS
Are in ohms .1/6Watts. ±5%Tolerance Unless Otherwise Noted k:kilo Ohms

CAPACITORS
Are in uF. Unless Otherwise Noted p:pF

Electrolytic Capacitor
Capacitance(uF)/ Voltage(V)

SYMBOL
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(PS) Polystyrene

# 8-4.AU-X517R Power Supply Section

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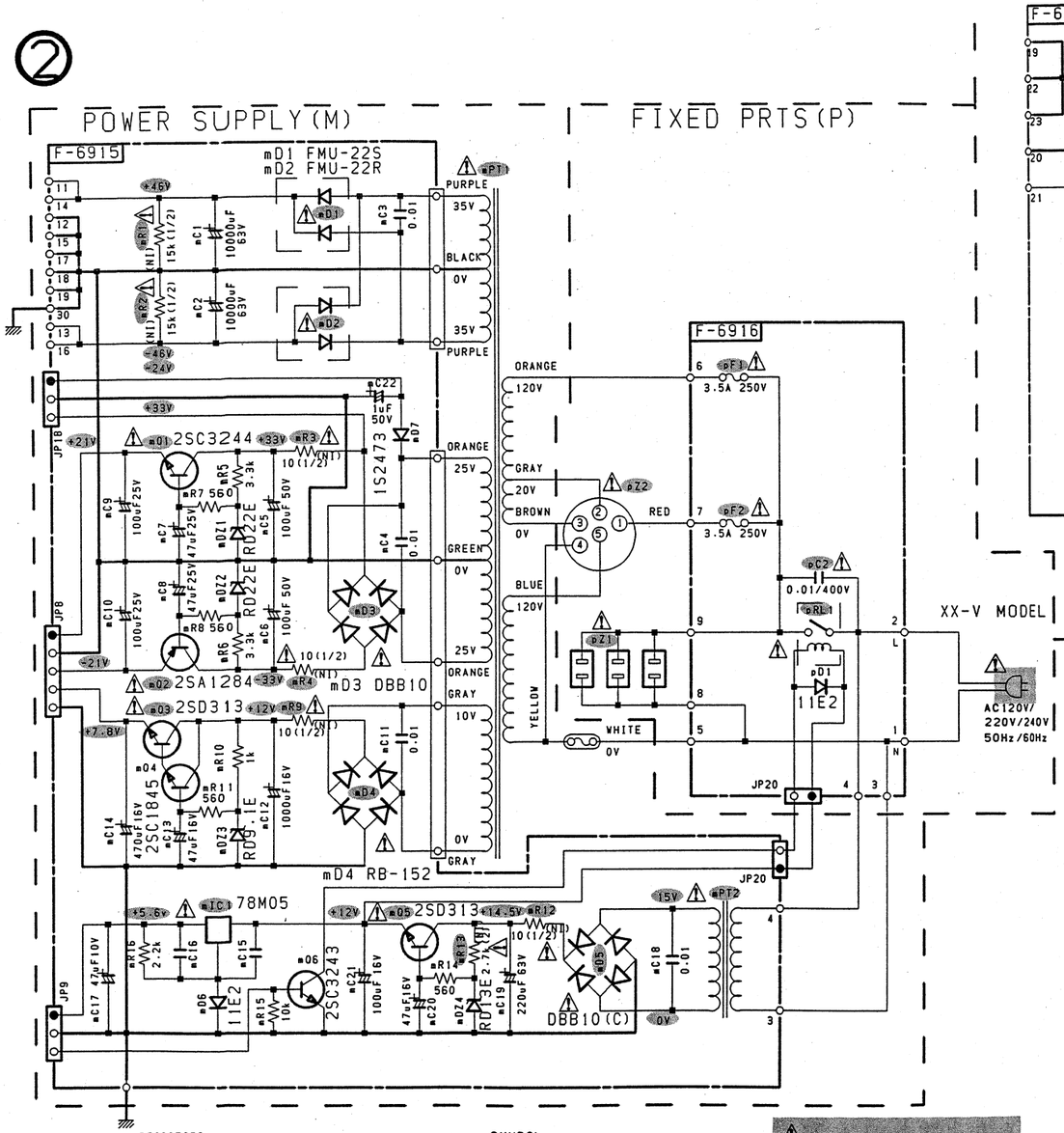
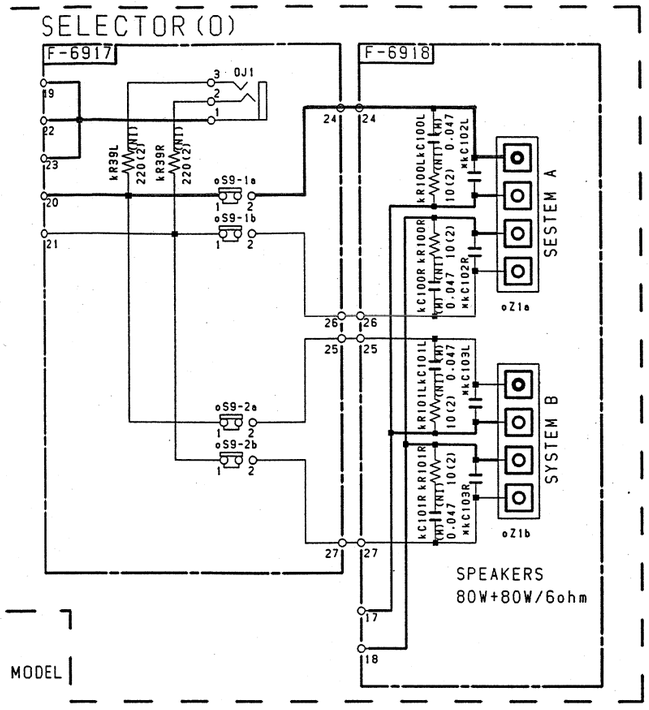
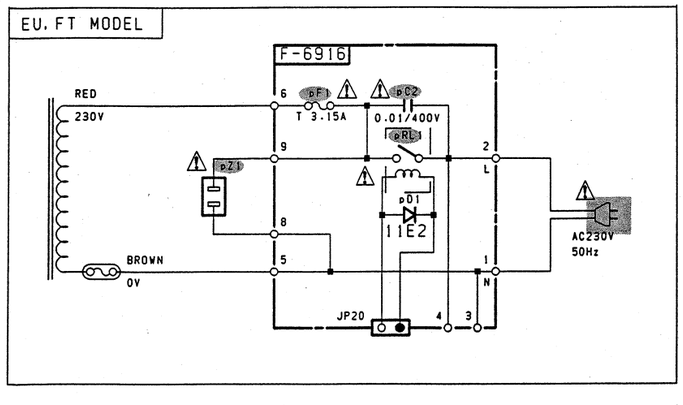
・改良のため、予告なく意匠、仕様の一部を変更することがあります。




RESISTORS

Are in ohms .1/6Watts.±5%Tolerance
Unless Otherwise Noted. k:kilo Ohms

CAPACITORS

Are in uF.Unless Otherwise Noted
p:pF

Electrolytic Capacitor

Capacitance(uF)/Voltage(V)

Each D.C Voltage shows the nominal value in volts at no input signal.

SYMBOL

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(BP) Bi-Polar Electrolytic
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(PC) Polycarbonate Film
(PP) Polypropylene Film
(PS) Polystyrene

⚠ is Safety part.
Use only replacement parts recommended by manufacturer.

——— SIGNAL LINE

1S1588
1S2473
11E2

NJM78M05
1:INPUT
2:OUTPUT
3:GND

SV-03

SEL3810
SEL3110S

1SS133

2SA1145
2SA1283
2SA1284
2SA992
2SC1845
2SC2705
2SC3243
2SC3244

RB-152

DBB10B

2SA1306
2SC3298

FMU-22S

2SD313

FMU-22R

2SA1492
2SC3856

2SK389

2SA1115
2SC2603

M5220L

DTA144
DTC143
RN1204
RN1209
RN2204

TA7317P

LB1641

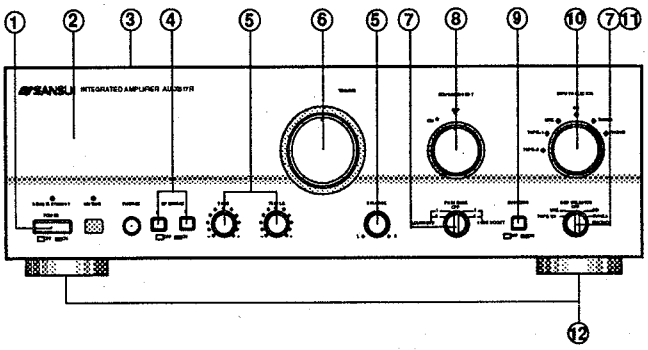
RD13E
RD22E
RD6.2E
RD9.1E
RD5.1B
05AZ13
MTZ5.1B
05AZ9.1

TMP47C440N
Dot or Slit or Line

# 9.OTHER PARTS　基板外部品表

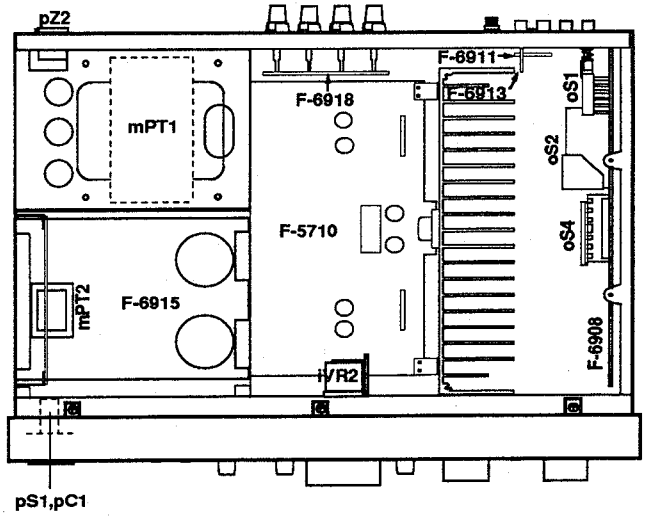
## Fronr View

| Parts No. | Stock No. | Description |
|---|---|---|
| ① | 05169800 | KNOB POWER SW. |
| ② | 05170700 | FRONT PANEL(AU-AL507R) |
| | 05170800 | FRONT PANEL(AU-X517R) |
| ③ | 05185400 | BONNET XX, SS |
| | 05190700 | BONNET EU |
| ④ | 05169600 | KNOB SPEAKER SW. |
| ⑤ | 85075400 | KNOB BALANCE, BASS, TREBLE |
| ⑥ | 05170300 | KNOB MASTER VOLUME |
| ⑦ | 05170000 | KNOB REC SELECTOR, PRESENCE |
| ⑧ | 05170200 | KNOB SOURCE DIRECT |
| ⑨ | 05169700 | KNOB SUBSONIC |
| ⑩ | 05170100 | KNOB INPUT SELECTOR |
| ⑪ | 49826200 | ROTARY SW. |
| ⑫ | 05073000 | LEG |




## Top View

| Parts No. | Stock No. | Description |
|---|---|---|
| ⚠ MPT1 | 15042600 | P. T. (AU-AL507R) |
| ⚠ MPT1 | 15042709 | P. T. (AU-X517R ) XX, SS |
| | 15042705 | P. T. (AU-X517R ) EU |
| ⚠ PS1 | 48866600 | POWER SWITCH(AU-α507R) |
| ⚠ PC1 | 46425800 | 0.01 μF 400V C. C. |



# AU-α507R/X517R

## Specifications

### Power output

Min.RMS, both channels driven,from 20 to 20,000Hz,with no more than 0.015% total harmonic distortion.
65 watts per channel into 8 ohms.

**DIN**
85 watts per channel into 4 ohms.

| | |
|---|---|
| **Load impedance** | |
| A,B | 4 to 16 ohms |
| A+B | 8 to 16 ohms |
| **Total harmonic distortion** | less than 0.015% at or bellow rated min. RMS power output |
| **Frequency response** (at 1 watt ) | |
| Overall (from CD) | 5 to 100,000 Hz, +0 dB,-3dB |
| **RIAA curve deviation** (PHONO-MM,20Hz to 20 kHz) | +0.5 dB,-0.5 dB |
| **Input sensitivity and impedance** (at 1 kHz) | |
| PHONO (MC) | 350 μV / 100 ohms |
| PHONO (MM) | 2.5mV / 47 kohms |
| (Max. input capability: 210 mV at 1 kHz, less than 0.01% total harmonic distortion) | |
| CD,TUNER,LINE | 150 mV / 47 kohms |
| TAPE PLAY-1,2 | 150 mV / 47 kohms |
| **Output level** (at 1 kHz) | |
| TAPE REC-1,2 | 150 mV into 47 kohms |
| **Signal to noise ratio** (short-circuit) | |
| PHONO (MC) | 70 dB |
| PHONO (MM) | 88 dB |
| CD,TUNER,LINE | 105 dB |
| TAPE PLAY-1,2 | 105 dB |
| **Controls and Filter** | |
| BASS | ±8 dB at 50 Hz |
| TREBLE | ±8 dB at 15 kHz |
| SUBSONIC | -3 dB at 16 Hz (6 dB/oct) |
| **Power requirement** | AC 120V / 220V / 240V, (50 / 60 Hz) |
| For European | AC 230 V (50 Hz) |
| For U.S.A. & Canada | AC 120 V (60 Hz) |
| **Power consumption** | 400 watts Rated<br>500 watts Maximum |
| **Dimensions** | 430 mm (16-15/16") W<br>135 mm (5-5/16") H<br>331 mm (13") D |
| **Weight** | 12 kg (26.5lbs) net |

* Design and specifications subject to changes without notice for improvements.
* Due to local laws and regulations, this unit sold in some areas are not equipped with variable voltage selectors.

## 規格

### [パワーアンプ部]

| | |
|---|---|
| 帯域実効出力（20Hz～20KHz、両チャンネル同時動作） | |
| 6Ω | 80W+80W |
| 全高調波歪率（20Hz～20kHz） | |
| 6Ω（実効出力時） | 0.008%以下 |
| 混変調歪率（60Hz：7、000Hz＝4：1、SMPTE法） | 0.008%以下 |
| ダンピングファクター（1kHz） | |
| 8Ω | 135 |
| 周波数特性（1W） | 1～200kHz, +0dB, -3dB |
| 負荷インピーダンス | |
| A, B | 4～16Ω |
| A+B | 8～16Ω |

### [プリアンプ部]

| | |
|---|---|
| 入力感度／入力インピーダンス（1、000Hz） | |
| PHONO (MC) | 300μV/100Ω |
| PHONO (MM) | 2.5mV/47kΩ |
| TUNER, CD, LINE | 150mV/47kΩ |
| TAPE/DAT PLAY-1, 2 | 150mV/47kΩ |
| 最大許容入力（1, 000Hz） | |
| PHONO (MC, 全高調波歪率：0.08%) | 25mV |
| PHONO (MM, 全高調波歪率：0.01%) | 210mV |
| 出力電圧／出力インピーダンス（1, 000Hz） | |
| TAPE/DAT REC-1, 2 | 150mV/1kΩ以下 |
| 周波数特性（1W） | |
| PHONO (MM) (RIAA偏差) 20HZ～20kHz±0.5dB (REC OUT) | |
| TUNER, CD, LINE | 1～200kHz、+0dB、-3dB |
| TAPE/DAT PLAY-1, 2 | 1～200kHz、+0dB、-3dB |
| SN比（Aネットワーク、ショートサーキット） | |
| PHONO (MC) | 68dB以上 |
| PHONO (MM) | 83dB以上 |
| TUNER, CD, LINE | 110dB以上 |
| TAPE/DAT PLAY-1, 2 | 110dB以上 |
| チャンネルセパレーション (1, 000Hz) | |
| PHONO (MM) | 65dB以上 |
| TUNER, CD, LINE | 80dB以上 |
| TAPE/DAT PLAY-1, 2 | 80dB以上 |
| トーンコントロール | |
| BASS最大変化量 | +8dB, -8dB (50Hz) |
| TREBLE最大変化量 | +8dB, -8dB (10kHz) |
| サブソニックフィルター | 16Hz (-3dB) 6dB/oct. |

### [その他]

| | |
|---|---|
| 電源電圧 | 100V |
| 電源周波数 | 50Hz/60Hz |
| 定格消費電力（電気用品取締法） | 140W |
| 寸法 | 幅430mm×高さ135mm×奥行360mm |
| 重量 | 11.2kg（本体のみ） |

＊改良のため、予告なく意匠、仕様の一部を変更することがあります。

SANSUI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A3530, A3540 (SM2-323) Printed in Japan (1992. 08. P) <Stock No. 36566700>